Descriptions of New Species of Noctuidae (Hadeninae).

(Continued from page 105.)

By A. E. WILEMAN, F.E.S., and R. J. WEST.

Collected by A. E. Wileman in the Philippine Islands, the types being in the Wileman collection. "Ridgway" has been used as the standard for colours. Colour terms in italics are not Ridgway's. Patagium=collar-tippet. Tegula=wing-base-covers.

HADENINAE.

Elusa alector, sp.n.

Male.—Palpus: wood brown, outwardly fuscous tinged with russet. Antenna: ciliated, with paired setae. Head: frons and vertex wood brown. Thorax: wood brown, fuscous black tinged with russet on metathorax, patagium and tegula wood brown anteriorly, tinged with russet posteriorly. Abdomen: hair brown above, ventral surface wood brown, anal tuft wood brown tinged with russet. Pectus: wood brown. Legs: wood brown, femur of fore-leg thickly scaled with fuscous tinged with russet, tibia of hind-leg has large tuft of scales and hair-scales, light to warm buff tinged with russet. Forewing: liver brown shaded with fuscous, two fuscous spots outlined with drab grey, one each at upper and lower angles of cell; underside light drab. Hindwing: upperside light drab suffused with fuscous, underside light drab.

Expanse 22mm. (tip to tip 20mm.).

Female.—Similar, but differing in the antennae, of which cilia are much shorter.

	se 24mm. (
Holotype.	Male.	Palali, su	bprov	. Benguet,	Luzon	, I., 2,000 ft.
U I			1	, 0		28.XII.1912.
Allotype.	Female.	,,	,,	"	,,	22
						26.XII.1912.
Paratype.	Female.	Baguio,	,,	"	• •	" 10 TT 1010
37			(15)			12.XI.1912.

Nearest ally E. diloba, Hmps. (Borneo).

Miselia luminosa, sp.n.

Male.—Palpus: thickly scaled with a mixture of warm buff and neutral red scales, with a sprinkling of fuscous black. Antenna: shaft drab, each segment of basal half ochraceous buff above and ringed with fuscous, ciliated with paired setae. Head: frons and vertex pecan brown tinged with neutral red. Thorax: clothed with light buff hair-scales tipped with neutral red; patagium, pecan brown tinged with neutral red anteriorly; tegula pecan brown tinged with neutral red. Abdomen: drab grey tinged with fuscous on basal segments, and fuscous patch on anal segment, venter pecan brown tinged with neutral red, anal tuft warm buff tinged with pecan brown. Pectus: drab. Legs: coxae, femora and tibiae neutral red mixed with fuscous, tarsal segments clove brown, joints ringed with light buff. Forewing: pecan brown with suffusion of warm buff near inner margin, and suffusion of neutral red above median nervure, orbicular outlined with velvety fuscous black, reniform suffused with warm buff

and outlined with warm buff and velvety fuscous black, which extends to postmedial fascia as a short dash; claviform mark outlined in fuscous black; antemedial fascia wavy, warm buff edged with fuscous black : postmedial, excurved, crenulate line of fuscous black and warm buff, commencing with a small, warm, buff patch at costa; subterminal fascia irregular, interrupted, warm buff preceded by a series of indistinct, interneural, fuscous, sagittate marks (points basad); a broad, ill-defined fuscous bar from postmedial nearly to termen, on, and on each side of, vein 5, but not touching 4 or 6; a terminal series of velvety, fuscons black lunules; fringe pecan brown, warm buff at base succeeded by a zone of neutral red. Underside: fuscous bordered with neutral red, postmedial and subterminal bands indicated, pale along inner margin and with a streak of warm buff below costa at basal third. Hindwing : light buff suffused with fuscous, veins fuscous, and area beyond postmedial more strongly suffused with fuscous; underside, lower half light buff, upper half suffused with neutral red, subterminal band fuscous, postmedial fuscous, strongly indicated from costa to vein 6, a diffuse fuscous discocellular lunule.

Expanse 44mm. (Tip to tip 42mm.)

Holotype. Male. Haights' Place, Pauai, subprov. Benguet, Luzon, I., 7,000 ft. 8.X1.1912.

Nearest ally M. pannosa, Moore (India, Ceylon).

Cirphis lipara, sp.n.

Male.-Palpus: light buff, tinged with snuff brown above. Antenna: ciliated, with paired setae, light buff on basal quarter. Head: frons light buff, fuscous laterally, vertex light buff, tinged with snuff brown. Thorax: light buff, patagium light buff tinged with snuff brown, with two narrow transverse bands of fuscous black, snuff brown posteriorly, tegula light buff tinged with snuff brown, with a few fuscous black scales. Abdomen; light buff, with basal dorsal crest tinged with snuff brown, venter light buff, with fuscous black patch wide at base, diminishing to a point posteriorly, and a fuscous black spot on sides of each of segments 6 to 8, anal tuft light buff. Forewing: snuff brown, with cartridge buff band on and below costa, and veins 6 to 12; white on median nervure at distal half of cell, continuing along veins 3 and 4; area below cell up to postmedial fascia cartridge buff tinged with snuff brown (except just at wing-base), sparsely irrorated with a number of scattered fuscous black scales; a white and cartridge buff, diagonal, wedge-shaped fascia from apex, widest at inner margin between medial and postmedial fasciae, its outer edge overlapping the postmedial series of fuscous black, interneural points from vein 5 to anal vein; area between this line and termen snuff brown; interneural fuscous black spots on termen. Underside: cartridge buff overlaid with opalescent scales; upper half suffused with pinkish vinaceous, a prominent fuscous black spot on costa between end of cell and wing-apex, a trace of the diagonal wedge-shaped fascia, and a terminal series of interneural fuscous black points. Hindwing : upperside cartridge buff suffused with fuscous between veins 2 and 6; underside cartridge buff overlaid with opalescent scales, with a few fuscous scales on discocellulars and between them and wing-apex.

Expanse 36mm. (Tip to tip 35mm.)

Holotype.	Male.	Haights'	Place,	Panai,	subp	rov. Benguet, Luzon, 7000 ft. 30.XI.1912.
Paratype.	Male.	,,	"	"		
Paratype.	Male.					"28.VII.1913.
Paratype.	Male.	Baguio,				

5000 ft. 1.IV.1913.

This species is similar to *C. decissima*, Wlk., but differs in having the diagonal line from apex more sharply defined, and the white scaling on median nervure and veins 3 and 4 is more extensive.

Cirphis albomarginalis, sp.n.

Male .- Palpus: cartridge buff, with fuscous above. Antenna: ciliated, with paired setae. Head : frons and vertex cartridge buff and fuscous mixed. Thorax: cartridge buff, a tuft of pale drab grey speckled with fuscous hair-scales on mesothorax; patagium, cartridge buff anteriorly, edged with fuscous, cartridge buff tinged with wood brown posteriorly, tegula cartridge buff tinged with wood brown with a few fuscous black scales intermixed. Abdomen : drab with prominent fuscous crest on basal segment, other crests cartridge buff; venter cartridge buff, with a row of three half hidden fuscous spots at sides; anal-tuft cartridge buff. Pectus: cartridge buff. Legs: foreleg cartridge buff with fuscous inwardly, other legs cartridge buff speckled with fuscous, fuscous on spurs. Forewing: wood brown, cartridge buff band along and below costa, with scattered fuscous scales and three fuscous spots on costa, sub-basally, antennedially and postmedially; veins 6 to 12 cartridge buff, distal two thirds of cell cartridge buff lightly irrorated with wood brown, orbicular faintly marked by a wood brown spot, reniform ill-defined by fuscous; median nervure white, the white continuing along veins 3 and 4; a diagonal fascia from apex to inner margin at two thirds, from apex to vein 5, broad, cartridge buff, continuing as a broken row of postmedial fuscous dots; interneural, fuscous spots on termen; cartridge buff patch near tornus; underside cartridge buff, with scattered fuscous scales below costa, fuscous mark on discocellulars, a broken, fuscous, postmedial band with a fuscous spot at costa, a fuscous postmedial to subterminal patch between veins 2 and 5. Hindwing : fuscous, cartridge along costa and cilia ; underside cartridge buff sparsely irrorated with fuscous; fuscous mark on discocellulars fuscous dots on veins postmedially, interneural fuscous

dots termi	nally.					
(Expa	nse 38mm.	(Tip to	tip 36m	m.)		
Female	e.—Similat	r to male	, slightly	paler.		
Expan	se 38mm.	(Tip to	tip 36mn	n.)		
Holotype.	Male.	Haights	s' Place, l	Pauai, su	bprov. Ber	nguet, Luzon,
		Ŭ		I	., 7,000 ft.	12.V.1913.
Allotype.	Female.	,,	,,	,,	,,	,, ,,
					7,000 ft	" 13.I.1912.
Paratype.	Female.	Baguio,	subprov.	Benguet	, Luzon.	5,000 ft.
						20.IV.1912.
Paratype.	Female.	,,,	>>	21	,,	,,
						1.V.1913.

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This species is very close to C. decissima, Wlk., but differs in having a patch of cartridge buff at apex and in cell.

Cirphis cuneata, sp.n.

Male.-Palpus: pinkish buff, fuscous above. Antenna: ciliated, with paired setae. Head: frons and vertex light buff. Thorax: meso- and metathorax have fuscous scales tipped with pale drab grey; patagium, light buff, with three fuscous bands, tinged with vinaceous brown between the bands, edged with pale drab grey; tegula, light buff with tinge of vinaceous brown posteriorly. Abdomen : light drab above, with dorsal crest fuscous and drab grey, venter light buff tinged with vinaceous brown, anal tuft light buff tinged with vinaceous brown. Pectus: light buff. Legs: light buff, fuscous on fore-and mid-tarsi, hind-tibia speckled with fuscous. Forewing: warm buff, tinged with vinaceous brown along costa, white in proximal two thirds of cell, along subcostal and veins 6 to 12, on median nervure and veins 1 to 5, along vein 4 the white is three times the width of vein; a bone brown streak along basal half of inner margin, another below median nervure, to and just beyond the commencement of vein 2, bone brown streaks between each of the veins 2 and 3, 3 and 4, 4 and 5, a longer bone brown streak above vein 5, rising in distal third of cell and extending to termen; an elongate bone brown dash in lower half of distal third of cell, and a round bone brown spot near lower angle of cell; underside: drab with a faint tinge of phlox pink, and a patch of fuscous hairs in cell. Hindwing : drab suffused with fuscous towards termen, cilia pinkish buff; underside: pinkish buff, faintly tinged in upper half and on cilia with phlox pink.

Nearest ally C. diagramma, Beth.-Baker (N. Guinea).

Note on a migration of Colias croceus.

By B. C. S. WARREN, F.E.S.

Mr. Wheeler's note in the September number of the *Ent. Record* on the abundance of *Colias crocens* in England, interested me very much, for the numbers of this species in the Rhone Valley district have been almost incredible during the past month. From the last days of July onwards, it has been no unusual thing to see *crocens* flying in the streets and gardens of Lausanne, sometimes three or four in sight at the same time. On August 6th, from a steamer on the lake dozens of *crocens* were seen between Vevey and Villeneuve flying over the water, often far out from the shore.